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IN THE CLAIMS:

Please cancel claims 24-27 and 31, withdraw claims 28-30 and 35, and amend claim 28 as provided below.

AMENDMENT

1-27. (Canceled)

- 28. (Currently amended <u>and</u> Withdrawn)— The semiconductor device of claim 24. A semiconductor device, comprising:
- a ferroelectric capacitor formed above a semiconductor body; and
 a hydrogen barrier formed along at least a portion of a side of the ferroelectric
 capacitor, the hydrogen barrier comprising:
- a nitrided aluminum oxide material formed along at least a portion of the side of the ferroelectric capacitor; and
- <u>a silicon nitride layer formed over the nitrided aluminum oxide material</u>, wherein the silicon nitride layer comprises:
- a first silicon nitride layer formed over at least a portion of the nitrided aluminum oxide material; and
- a second silicon nitride layer formed over at least a portion of the first silicon nitride layer, the second silicon nitride layer comprising a low silicon-hydrogen SiN material having an FTIR figure of merit value of about 0.05 or less, wherein the FTIR figure of merit is calculated as (Si-H absorbance) / (N-H absorbance x 1.4).
- 29. (Withdrawn) The semiconductor device of claim 28, wherein the low silicon-hydrogen SiN material has an FTIR figure of merit value of about 0.04 or less.
- 30. (Withdrawn) The semiconductor device of claim 28, wherein the low silicon-hydrogen SiN material has an FTIR figure of merit value of about 0.03 or less.

- 31. (Canceled).
- 32. (Original) A semiconductor device, comprising:

a ferroelectric capacitor formed above a semiconductor body;

an aluminum oxide material formed along at least a portion of a side of the ferroelectric capacitor;

a first silicon nitride layer formed over at least a portion of the aluminum oxide material; and

a second silicon nitride formed layer over at least a portion of the first silicon nitride layer, the second silicon nitride layer comprising a low silicon-hydrogen SiN material having an FTIR figure of merit value of about 0.05 or less, wherein the FTIR figure of merit is calculated as (Si-H absorbance) / (N-H absorbance x 1.4).

- 33. (Original) The semiconductor device of claim 32, wherein the low silicon-hydrogen SiN material has an FTIR figure of merit value of about 0.04 or less.
- 34. (Original) The semiconductor device of claim 32, wherein the low silicon-hydrogen SiN material has an FTIR figure of merit value of about 0.03 or less.
- 35. (Withdrawn) The semiconductor device of claim 32, wherein at least a portion of the oxide material is nitrided.
- 36. (Original) A hydrogen barrier for protecting ferroelectric capacitors in a semiconductor device, comprising:

an aluminum oxide material formed along at least a portion of a side of a ferroelectric capacitor;

a first silicon nitride layer formed over at least a portion of the aluminum oxide material; and

a second silicon nitride layer formed over at least a portion of the first silicon nitride layer, the second silicon nitride layer comprising a low silicon-hydrogen SiN material having an FTIR figure of merit value of about 0.05 or less, wherein the FTIR figure of merit is calculated as (Si-H absorbance) / (N-H absorbance x 1.4).